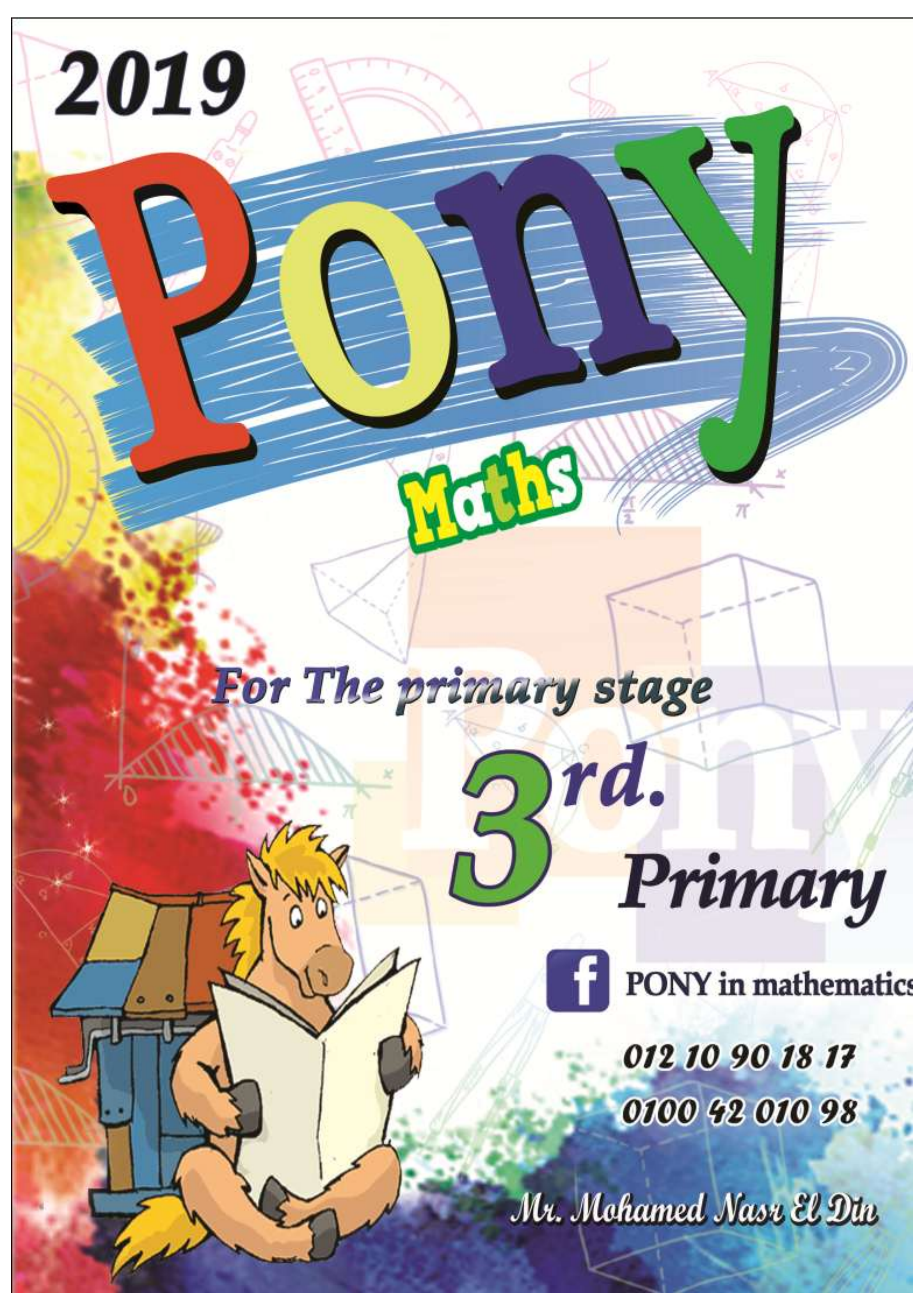

2019
Pony
Maths
For The primary stage
3rd.
Primary
PONY in mathematics
012 10 90 18 17
0100 42 010 98
Mr. Mohamed Nasr El Din

Unit 1

Multiplication and Division





Multiplication table

Table 2

2	X	1	=	2
2	X	2	=	4
2	X	3	=	6
2	X	4	=	8
2	X	5	=	10
2	X	6	=	12
2	X	7	=	14
2	X	8	=	16
2	X	9	=	18
2	X	10	=	20

Table 3

3	X	1	=	3
3	X	2	=	6
3	X	3	=	9
3	X	4	=	12
3	X	5	=	15
3	X	6	=	18
3	X	7	=	21
3	X	8	=	24
3	X	9	=	27
3	X	10	=	30

Table 4

4	X	1	=	4
4	X	2	=	8
4	X	3	=	12
4	X	4	=	16
4	X	5	=	20
4	X	6	=	24
4	X	7	=	28
4	X	8	=	32
4	X	9	=	36
4	X	10	=	40

Table 5

5	X	1	=	5
5	X	2	=	10
5	X	3	=	15
5	X	4	=	20
5	X	5	=	25
5	X	6	=	30
5	X	7	=	35
5	X	8	=	40
5	X	9	=	45
5	X	10	=	50

Table 6

6	X	1	=	6
6	X	2	=	12
6	X	3	=	18
6	X	4	=	24
6	X	5	=	30
6	X	6	=	36
6	X	7	=	42
6	X	8	=	48
6	X	9	=	54
6	X	10	=	60

Table 7

7	X	1	=	7
7	X	2	=	14
7	X	3	=	21
7	X	4	=	28
7	X	5	=	35
7	X	6	=	42
7	X	7	=	49
7	X	8	=	56
7	X	9	=	63
7	X	10	=	70



Table 8

8	X	1	=	8
8	X	2	=	16
8	X	3	=	24
8	X	4	=	32
8	X	5	=	40
8	X	6	=	48
8	X	7	=	56
8	X	8	=	64
8	X	9	=	72
8	X	10	=	80

Table 9

9	X	1	=	9
9	X	2	=	18
9	X	3	=	27
9	X	4	=	36
9	X	5	=	45
9	X	6	=	54
9	X	7	=	63
9	X	8	=	72
9	X	9	=	81
9	X	10	=	90

Any number X 0 = 0

Any number X 1 = the same number

3 X 5 = 5 + 5 + 5

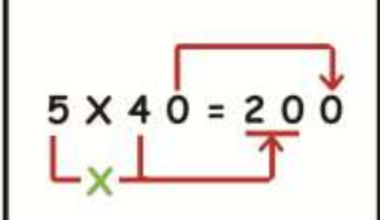
Or

3 X 5 = 3 + 3 + 3 + 3 + 3



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5 X 4 0 = 2 0 0	8 X 2 0 0 = 16 0 0	6 0 X 4 0 0 = 24 0 0 0

Complete :

3 X 10 = ... + ... + ... = ...

4 X 1 0 0 = ... + ... + ... + ... = ...

2 X 1 0 0 0 = ... + ... = ...

4 X 1 0 0 0 = ...	2 0 X 2 0 0 = ...
8 X 3 0 = ...	1 0 X 8 0 = ...
9 X 3 0 0 = ...	2 X 4 X 1 0 = ...
1 0 X 3 0 0 = ...	30 X 5 0 X 1 0 = ...
2 0 0 X 1 0 0 = ...	8 X 4 X 100 = ...
5 0 X 2 0 = ...	200 X 5 X 1 0 = ...

5 X .... = 5 0 0	.... X 4 0 = 2 hundreds
7 X .... = 3 5 0	.... X 5 0 = 3 thousands
8 X .... = 4 0 0 0	.... X 3 0 = 18 tens

5 X 2 0 0 = ... = ... tens

2 X 5 0 0 = ... = ... hundreds

8 X 5 0 0 = ... = ... thousands

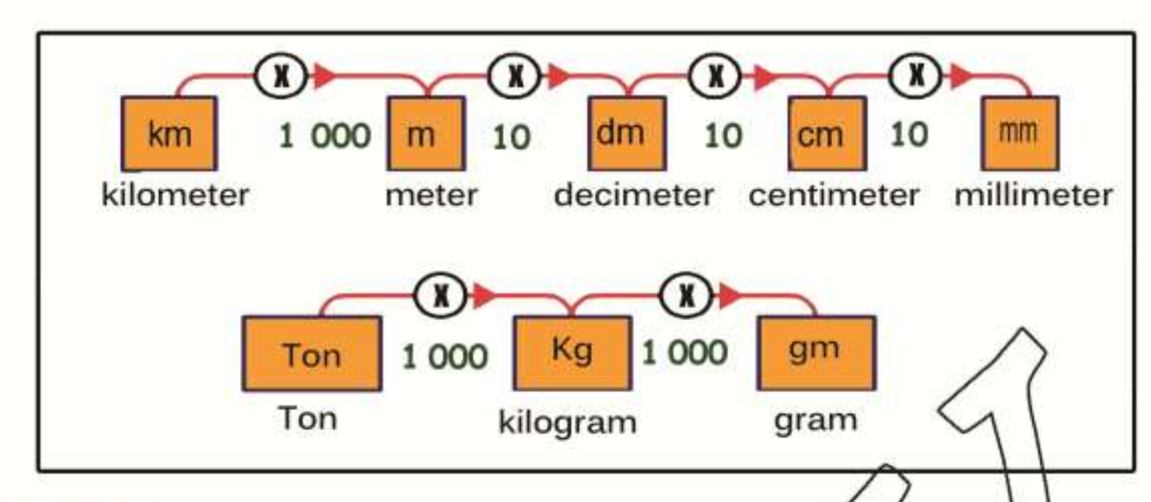
8 X 500 = ... X 1000 = ...

50 X 400 = 200 X .... = ...

8 X ....= 100 X .... = 64 000

.... X 600 = 30 X .... = 30 000





Complete :

17 kilometer = ... x .... = ... meter

10 meter = ... x .... = ... decimeter

25 meter = ... x .... = ... centimeter

45 decimeter = ... x .... = ... centimeter

27 centimeter = ... x .... = ... millimeter

4 Ton = ... x .... = ... kilogram

17 kilogram = ... x .... = ... gram

---

1) Hany bought 7 books for PT 100 each.
What is the price of books ?
The price of books =..

---

2) A merchant has 45 boxes of soap , each of 10 bars ,
he sold 270 bars . How many bars were left?
Number of bars in boxes=..
Number of bars left =..

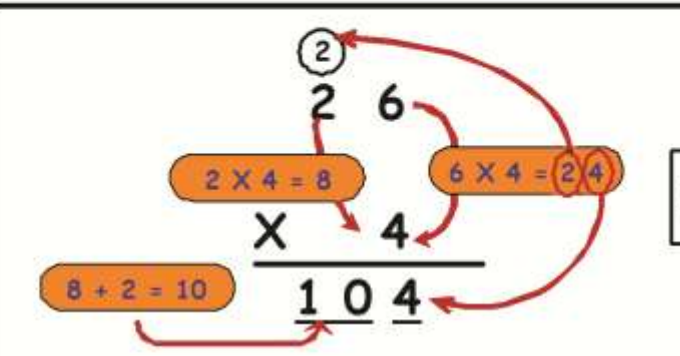
---

3) The monthly wages of the workers in a factory are LE 2000 .
What are the wages of these workers in a year ?
The wages =..





Multiplying a 2-digit number or more by a 1-digit number



26 X 4 = 104



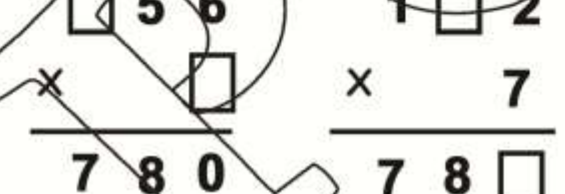
32	46	97
X 3	X 4	X 8
………	………	………

121	406	2134	4025
X 7	X 6	X 5	X 4
………	………	………	………

25 X 7 = ………… 36 X 9 = …………

402 X 2 = ………… 4125 X 4 = …………

Complete



□ 5 6	1 □ 2	1 5 6	2 □ 9 4
× □	× 7	× 4	× 2
7 8 0	7 8 □	□□□	□ 3 □□

A box contains 162 marbles .

How many marbles are there in 5 boxes?

There are = ……………………………………………………

the price of 1 kg of potatoes is PT 175. Find the price of 8 kg .

The price = ……………………………………………………



Even Numbers and Odd Numbers

Odd Numbers

Any number its units digit is
1 , 3 , 5 , 7 , 9
is an odd number

Even Numbers

Any number its units digit is
0 , 2 , 4 , 6 , 8
is an even number

Circle the odd numbers

200 , 15 , 63 , 20 , 84 , 913
910 , 212 , 214 , 155 , 473 , 477

Circle the even numbers

48 , 51 , 127 , 367 , 45 , 13
485 , 44 , 222 , 28 , 121 , 415

Complete each of the following:

(a) An even number + an even number = an .... number.

(b) An odd number + an odd number = an .... number.

(c) An even number + an odd number = an .... number.

(d) An even number + 1 = an .... number.

(e) An odd number + 1 = an .... number.

(f) An even number - 1 = an .... number.

(g) An odd number - 1 = an .... number.

(h) An odd number + 2 = an .... number.

(i) An even number - 2 = an .... number.

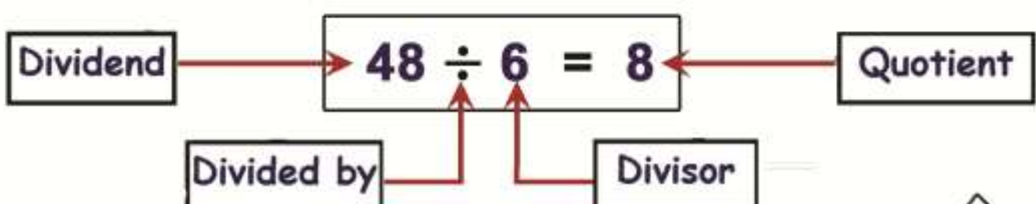
(j) The even number just after 306 is ....

(k) The odd number just before 2751 is ....

- Write two consecutive odd numbers given that the product of them is 15 .
  The two numbers are .... and ....



Division



Dividing by a 1-digit number

963 ÷ 3 = ...

900 ÷ 3 = 300
60 ÷ 3 = 20
3 ÷ 3 = 1

963 ÷ 3 = 321

Divide :

699 ÷ 3 = ...
486 ÷ 2 = ...
126 ÷ 6 = ...

846 ÷ 2 = ...
966 ÷ 3 = ...
5155 ÷ 5 = ...

8844 ÷ 4 = ...
8160 ÷ 8 = ...
1218 ÷ 3 = ...

$\frac{5525}{5}$ = ... $\frac{366}{3}$ = ... $\frac{963}{3}$ = ... $\frac{9669}{3}$ = ...

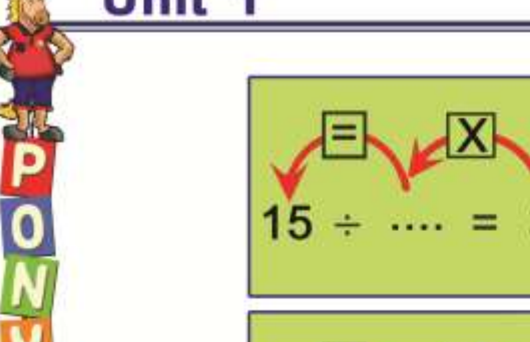
$\frac{844}{4}$ = ... $\frac{9900}{3}$ = ... $\frac{6129}{3}$ = ... $\frac{812}{4}$ = ...

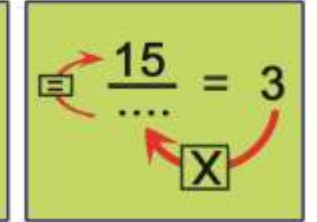
3 ⟌ 960 5 ⟌ 1505 6 ⟌ 2412 5 ⟌ 1545

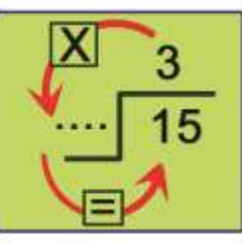
8 ⟌ 8024 5 ⟌ 3045 4 ⟌ 1208 3 ⟌ 6012

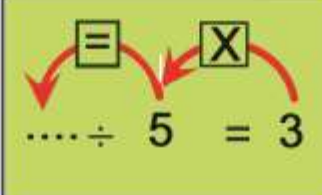
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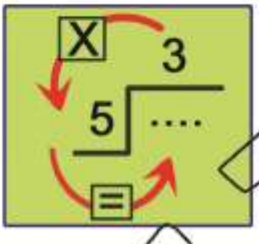












.... ÷ 3 = 312

.... ÷ 2 = 305

.... ÷ 4 = 62

.... ÷ 8 = 805

846 ÷ .... = 423

966 ÷ .... = 322

5155 ÷ .... = 1031

1218 ÷ .... = 406

$\frac{........}{5} = 120$

$\frac{........}{3} = 333$

$\frac{........}{4} = 2011$

$\frac{9900}{........} = 1100$

$\frac{6128}{........} = 3064$

$\frac{2436}{........} = 406$

$\frac{.....}{3} = 305$

$\frac{9669}{........} = 3223$

$\frac{4008}{........} = 501$

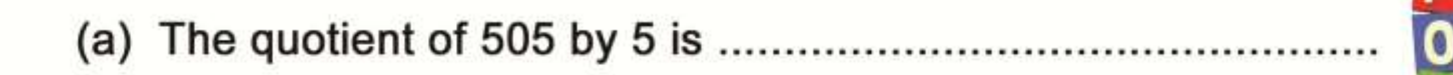
---

102 5 ⟌	2112 3 ⟌	201 6 ⟌	304 4 ⟌ ....
2006 ...... ⟌ 8024	609 ...... ⟌ 3045	302 ...... ⟌ 1208	1002 ...... ⟌ 6012

PONY

Answer the following :

(a) The quotient of 505 by 5 is ....



(b) How many threes are there in 279 ?

the number of threes = ...

(c) A merchant wanted to put 626 pieces of candy in two pakets so that each packet would contain the sam number of pieces . What is the number of pieces in each packet ?

the number of pieces in each packet = ...

(d) Samia and mariam's father distributed among them 226 pounds equally . What is the share of each one ?

the share of each one = ...

(e) An equally number of children are vaccinated against polio in one minstry of health clinics . If 328 children are vaccinated in 8 days . How many children were vaccinated in 5 days .

The number of children vaccinated in one day

= ....

The number of children vaccinated in 5 days

= ....

(f) Sarah paid LE 636 to buy 6 T-shirts of the same kind and price What is the price of each T-shirt?

the price of each T-shirt = ...



Exercises on Unit 1

(1) Find the result :

(a) $7 \times 10 =$	**(e)** $7 \times 2 \times 5 =$	**(i)** $45 \times 1000 =$ ....
(b) $8 \times 100 =$	**(f)** $2 \times 4 \times 100 =$	**(j)** $20 \times 60 =$ ....
(c) $9 \times 1000 =$	**(g)** $3 \times 6 \times 10 =$	**(k)** $40 \times 50 =$ ....
(d) $10 \times 10 =$	**(h)** $4 \times 3 \times 100 =$	**(l)** $300 \times 40 =$ ....

(2) Find the result of each of the following :

24	16	47	48	217	504
× 5	× 3	× 4	× 6	× 3	× 5
....	....	....	....	....	....

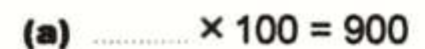
721	415	1215	6100	4017	8231
× 4	× 2	× 4	× 6	× 7	× 8
....	....	....	....	....	....

(3) Find the result:

(a) $639 \div 3 =$	**(d)** $550 \div 5 =$	**(g)** $660 \div 6 =$ ....
(b) $460 \div 2 =$	**(e)** $164 \div 4 =$	**(h)** $497 \div 7 =$ ....
(c) $250 \div 5 =$	**(f)** $488 \div 8 =$	**(i)** $360 \div 9 =$ ....

(4) Find the result :

....	....	....
$2\overline{)408}$	$5\overline{)5010}$	$4\overline{)488}$
....	....	....
$7\overline{)4207}$	$3\overline{)183}$	$3\overline{)366}$



(5) Complete :

(a) .... × 100 = 900

(b) 10 × .... = 90

(c) 100 × .... = 1000

(d) 10 × .... = 160

(e) 100 × 4 × .... = 2400

(f) 1000 × .... = 126000

(g) 45 × .... = 45000

(h) 40 × .... = 4000

(i) 3 × 300 = ... × 100 = ...

(j) 10 × 6 × .... = 6 × 1000

(k) 20 × 30 = 10 × ....

(l) 40 × 50 = 20 × ....

(6) Put the suitable sign (> or < or =) :

(a) 515 × 5 ☐ 515 ÷ 5

(b) 369 ÷ 3 ☐ 100 × 3

(c) 3 × 4 × 1000 ☐ 12 × 1000

(d) 20 × 70 ☐ 14 × 100

(e) 62 ÷ 2 ☐ 155 ÷ 5

(f) 3752 ÷ 7 ☐ 3752 × 7

(7) Choose the correct answer from those between brackets:

(a) Which of the following operations doesn`t represent an even number

(3 hundreds + hundred or 30 × 2 × 4 or 45 ÷ 5)

(b) If 135 × 4 = 630 , then 630 ÷ 4 = ... (120 or 125 or 135)

(c) The number which multiplied by 3129 the result will be 3129 is ....

(0 or 1 or 10)

(d) The number of the even numbers included between 10 and 20 is ....

(2 or 4 or 6)

(8) Mohamed has 20 banknote, one hundred pounds each, 7 banknote, 10 pounds each. What Mohamed has?

Mohamed has = ... = ... pounds

(9) If the price of one golden gram is 294 pounds, what is the price of 8 grams of this golden?

The price of 8 grams = ... = ... pounds

(10) Complete in the same pattern :

(a) 2 , 20, 200, ... , ...

(b) 215 , 430 , 860 , ... , ...

PONY



Activities (unit 1)

Example : If 4 X 8 = 32 and 4 X 6 = 24

then : 4 X 14 = ...32... + ...24... = 56

4 X (8 + 6) = 4 X 8 + 4 X 6

(1) If you know that 7 × 5 = 35 , 7 × 6 = 42 , 7 × 8 = 56

use these equalities to complete :

7 × 11 = ... + ... = ... , 7 × 14 = ... + ... = ...

7 × 13 = ... + ... = ... , 7 × 19 = ... + ... = ...

Example : If 24 X 3 = 72 and 24 X 60 = 1440

then : 24 X 63 = 1440 + ... 72 ... = 1512

24 X (60 + 3) = 24 X 60 + 24 X 3

(2) If you know that 49 × 7 = 343 , 49 × 30 = 1470 Complete:

49 × 70 = ... , 49 × 3 = ...

49 × 77 = ... + ... = ... , 49 × 33 = ... + ... = ...

49 × 37 = ... + ... = ... , 49 × 73 = ... + ... = ...

---

(3) If 32 = 2 + 3 + (3 × 9) 75 = 5 + 7 + (7 × 9)

Complete the following equalities (in the same way) :

68 = 8 + ... + (6 × ....) 47 = 7 + 4 + (4 × ....)

96 = ...

84 = ...

59 = ...

Unit 2

Geometry





The Perimeter

The perimeter of any polygon equals the sum of its sides length

find the perimeter of each of the following figures :

(1) (2) (3) (4)

The polygon	(1)	(2)	(3)	(4)
The perimeter				

(1) (2) (3)

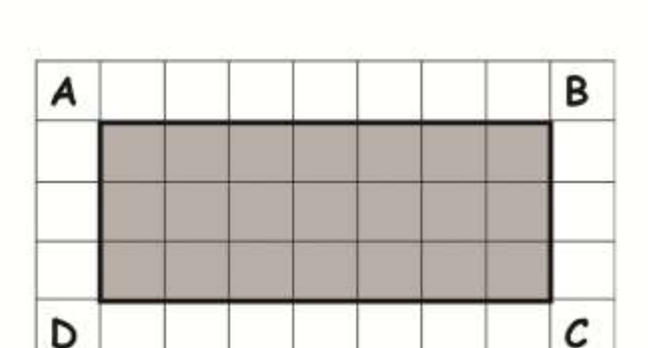
Figure	The perimeter
Figure (1)	……… + ……… + ……… + ……… = …………… cm
Figure (2)	…………………………………………………………………
Figure (3)	…………………………………………………………………

Calculate the perimeter of a triangle whose sides are 4,5,and 8 cm
The perimeter = ………………………………………………………………

the perimeter of a triangular piece of land is 200 m
Find the length of its third side if you know that the sum of two sides is 140 metres.

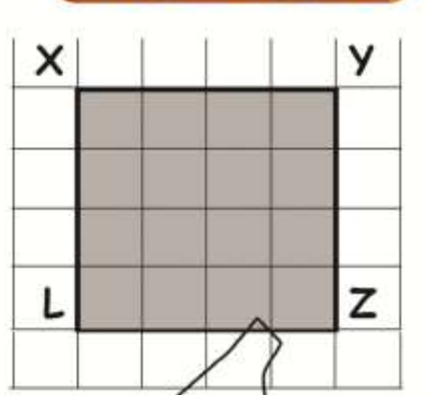
……………………………………………………………………………………………





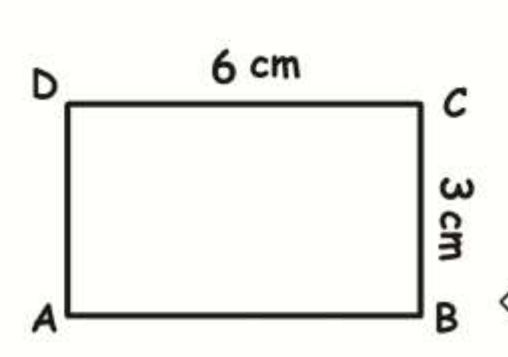
The perimeter of the rectangle

ABCD = ... + ... + ... + ... = ... cm



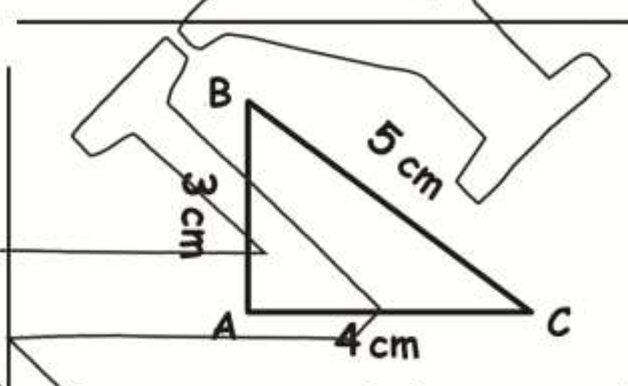
The perimeter of the square

XYZL = ... + ... + ... + ... = ... cm



The perimeter of the rectangle

ABCD = ... + ... + ... + ... = ... cm



The perimeter of the triangle

ABC = ... + ... + ... = ... cm

the perimeter of rectangle = (length + width) X 2

The perimeter of square = side lenght X 4

Complete : the perimeter of

- the square whose side length 5 cm = ………………cm
- the square whose side length 7 cm = ………………cm
- the rectangle whose length 8 cm and its width 4 cm = ………………cm
- the rectangle whose length 16 cm and its width 10 cm = ………………cm
- the rectangle whose length 2 m and its width 150 cm = ………………cm





The Area

The area of a shape is the number of units which consists that shape

find the area of each of the following figures :

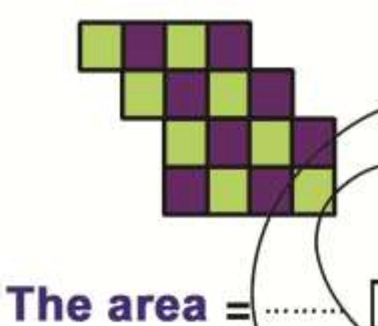


The area = ...



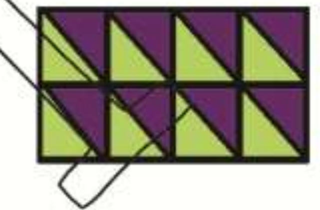
The area = ...

The area = ...



The area = ...

The area = ...



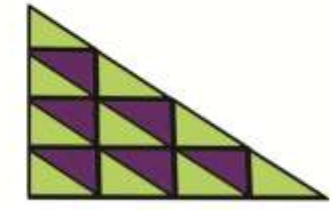
The area = ...

The area = ...



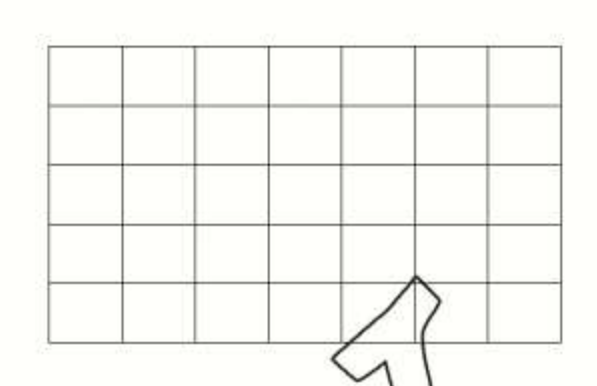
The area = ...

The area = ...



The area = ...

The area = ...



On the lattice ,

Draw the rectangle

ABCD in which :

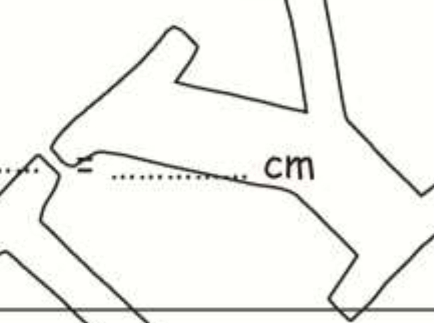
AB = 3 cm and BC= 5 cm

Complete :

CD = …………… cm , AD = …………… cm

Its perimeter = …………………………………… = …………… cm

Its area = ……………

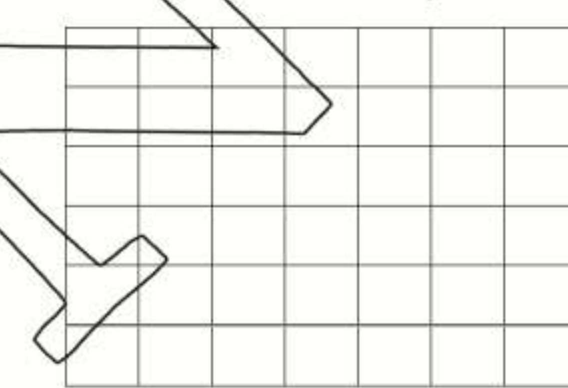


On the lattice ,

Draw the square

XYZL in which XY = 4 cm

Complete :



YZ =…… cm , ZL = …… cm , XL = …… cm

Its perimeter = …………………………………… = …… cm

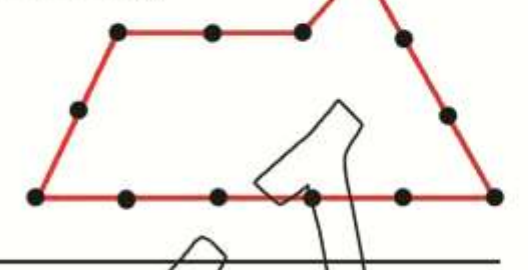
Its area = ……………

PONY



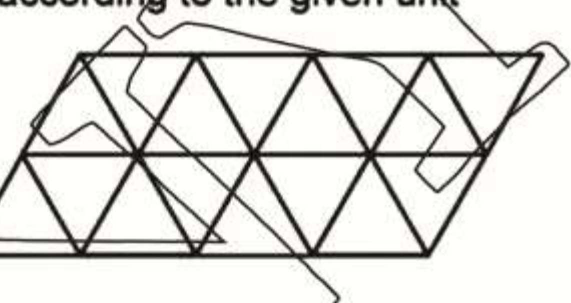
Exercises on unit 2

(1) Find the perimeter of this shape if you know that the distance between each two points is 1 centimetre long



The perimeter = ... cm

(2) Find the area of the opposite shape according to the given unit



Area of the shape = ...

= ....

= ....

(3) **(a)** Find the perimeter of a square whose side length is 3 cm.

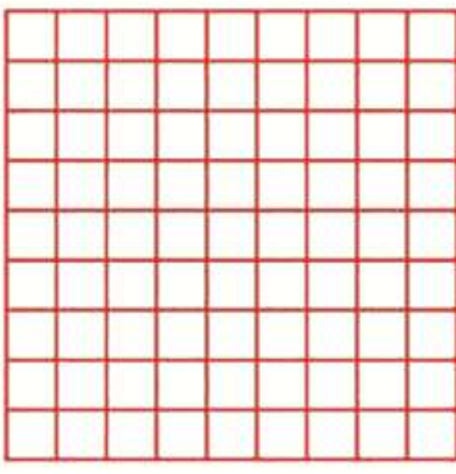
the perimeter of the square = ... = ... cm

(b) Find the perimeter of a triangle whose sides are 5 cm, 7 cm, and 10 cm.

The perimeter of the triangle = ... = ... cm

(4) On the opposite lattice:

Draw a shape with a perimeter of 8 units of length.



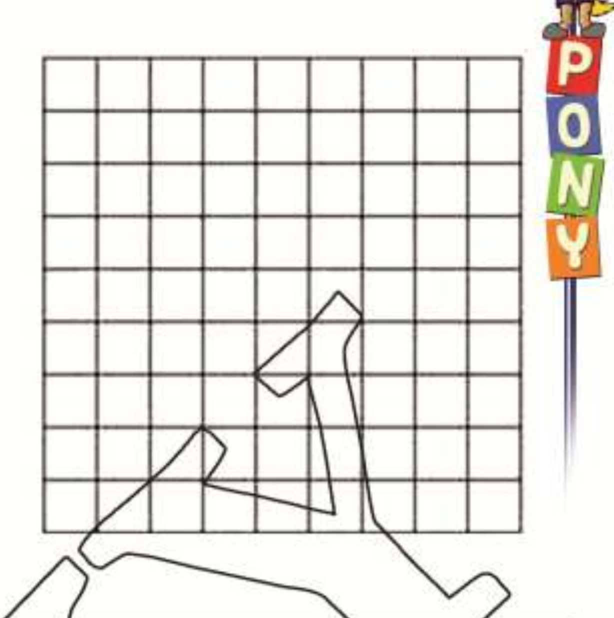
(Consider the length of the small square's side a unit of length and its area a unit of area)



(5) On the opposite lattice:

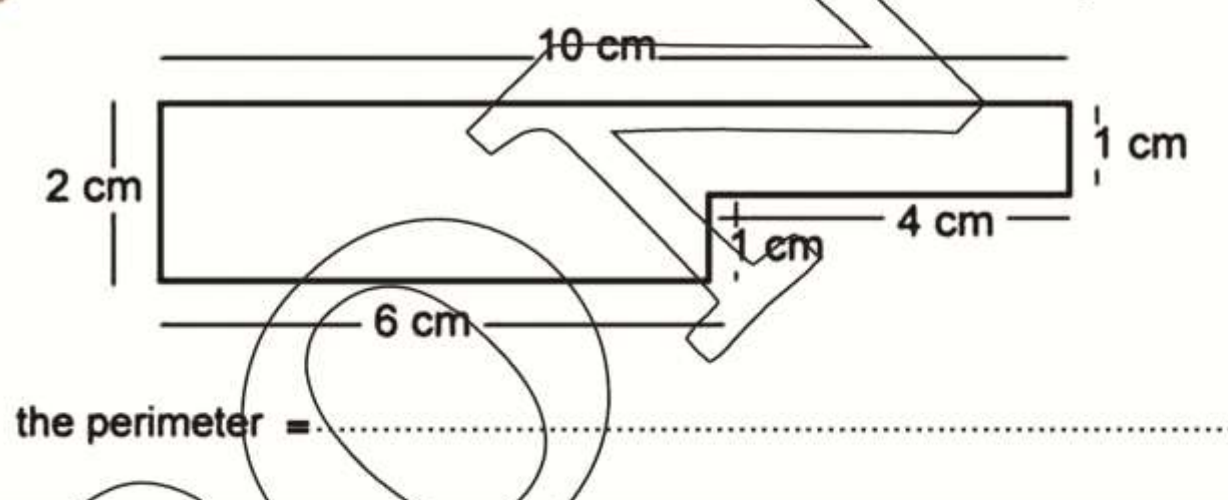
Draw a shape with area of 8 square units.

(Consider the length of the small square's side a unit of length and its area a unit of area)



---

(6) In the following figure calculate the perimeter of the figure in cm



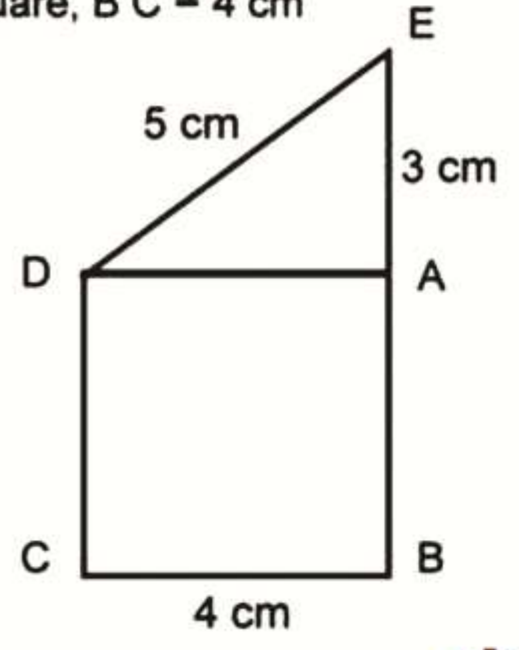
the perimeter = ...

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(7) In the opposite figure A B C D is square, B C = 4 cm

A E = 3 cm , E D = 5 cm.

Calculate its perimeter



the perimeter = ...

= ....

PONY in mathematics





Unit 3

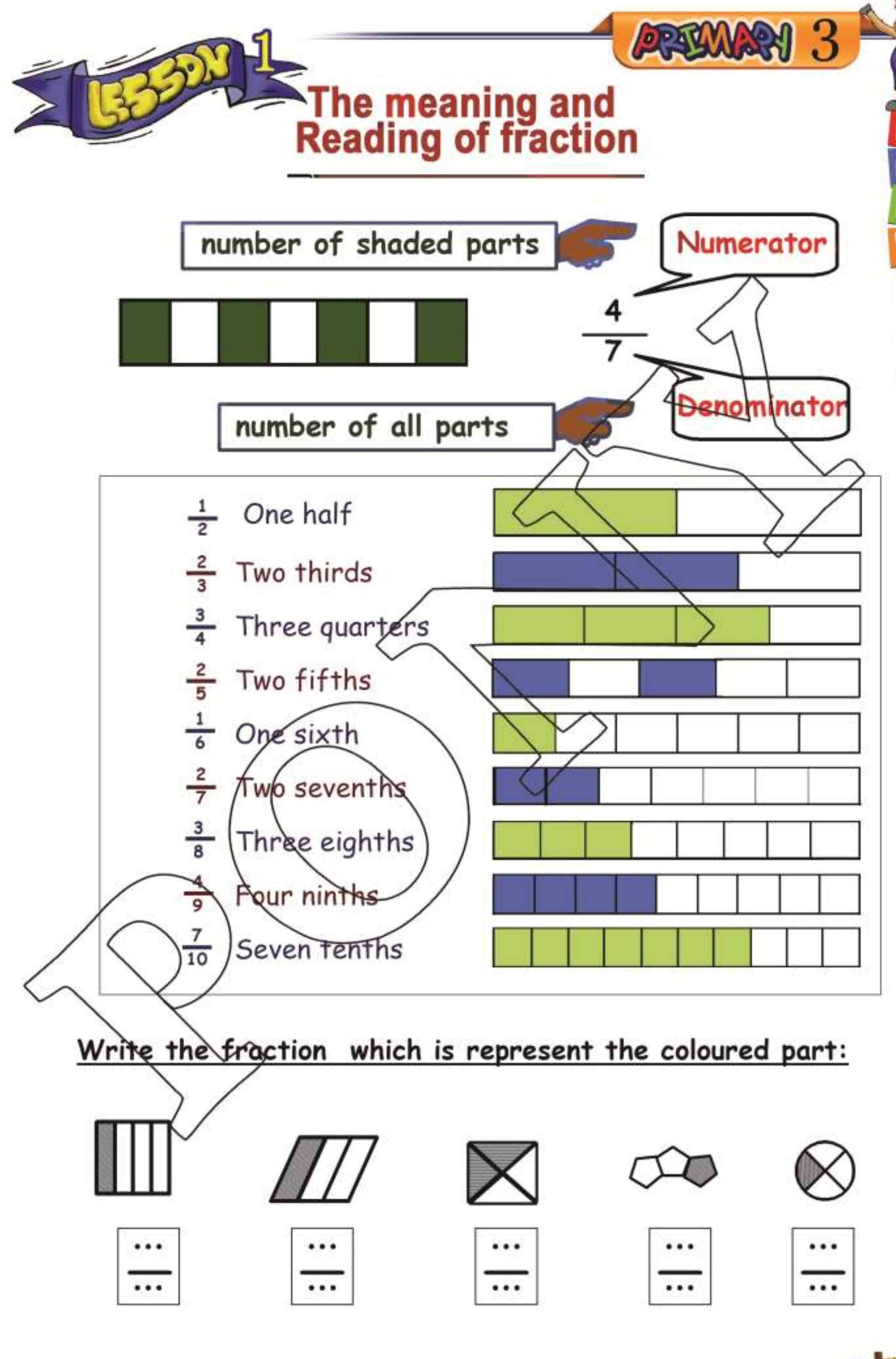
Fractions

PONY



LESSON 1

The meaning and Reading of fraction



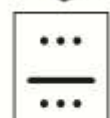
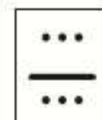
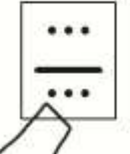
$\frac{1}{2}$	One half
$\frac{2}{3}$	Two thirds
$\frac{3}{4}$	Three quarters
$\frac{2}{5}$	Two fifths
$\frac{1}{6}$	One sixth
$\frac{2}{7}$	Two sevenths
$\frac{3}{8}$	Three eighths
$\frac{4}{9}$	Four ninths
$\frac{7}{10}$	Seven tenths

Write the fraction which is represent the coloured part:

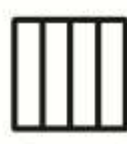
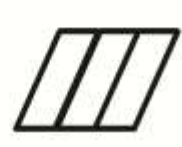
$\frac{...}{...}$ $\frac{...}{...}$ $\frac{...}{...}$ $\frac{...}{...}$ $\frac{...}{...}$

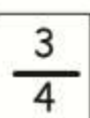


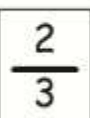
    

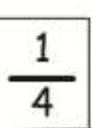
    

Colour a part which represents the fraction :

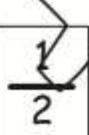
   

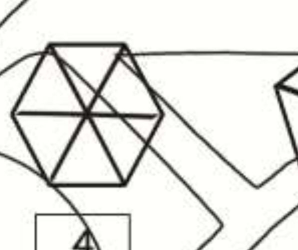


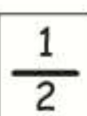


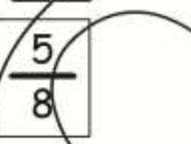


$\frac{1}{3}$

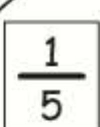






$\frac{4}{6}$



$\frac{3}{5}$

Write the fraction :

Half = …… Quarter = …… third = ……

One fifth = …… two sixths = …… three eighths = ……

Five ninths = …… Four sevenths = …… one tenth = ……

Write each fraction in words :

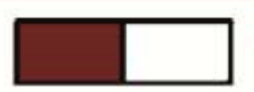
$\frac{2}{3}$ = ……………………………… $\frac{3}{4}$ = ………………………………

$\frac{5}{7}$ = ……………………………… $\frac{5}{8}$ = ………………………………





Equale Fractions

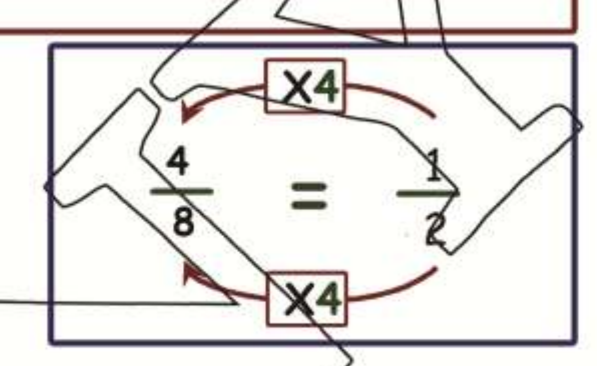


$\frac{1}{2}$ One half

$\frac{2}{4}$ Two quarters

$\frac{3}{6}$ Three sixths

$\frac{1}{2} = \frac{2}{4} = \frac{3}{6}$



X3

$\frac{1}{2} = \frac{3}{6}$

X3

X4

$\frac{4}{8} = \frac{1}{2}$

X4

Complete :

$\frac{6}{8}$	= $\frac{3}{......}$	$\frac{5}{7}$	= $\frac{10}{......}$	$\frac{3}{4}$	= $\frac{6}{......}$
$\frac{......}{4}$	= $\frac{1}{2}$	$\frac{3}{5}$	= $\frac{......}{10}$	$\frac{2}{......}$	= $\frac{8}{12}$

$\frac{2}{2}$ = $\frac{4}{4}$ = $\frac{8}{8}$ = 1

2 Half 4 Quarter 8 eighth



$1 = \frac{5}{......}$ | $\frac{4}{......} = \frac{3}{3}$ | $\frac{2}{2} = \frac{4}{......}$

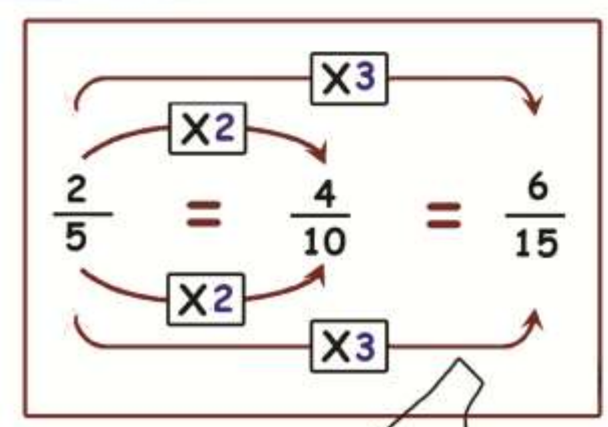
$1 = \frac{2}{......} = \frac{3}{......} = \frac{......}{4} = \frac{5}{......} = \frac{......}{6}$



X3 X2

$\frac{1}{2} = \frac{3}{6}$ $\frac{6}{12}$

X3 X2



$\frac{1}{2} = \frac{3}{......} = \frac{4}{......}$

$\frac{1}{4} = \frac{2}{......} = \frac{......}{16}$

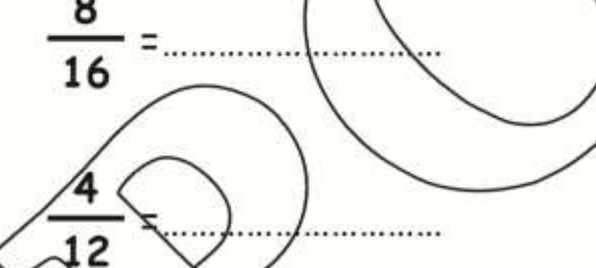
$\frac{4}{6} = \frac{2}{......} = \frac{......}{12}$

$\frac{5}{25} = \frac{1}{......} = \frac{......}{10}$

Simplifying fractions

Reduce each of the following fractions to its simplest form:

$\frac{8}{16}$ =..............................



$\frac{4}{12}$ =..............................

$\frac{7}{28}$ =..............................

$\frac{3}{6}$ =..............................

$\frac{25}{50}$ =..............................

$\frac{12}{24}$ =..............................

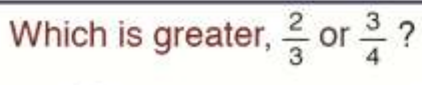
$\frac{18}{48}$ =..............................

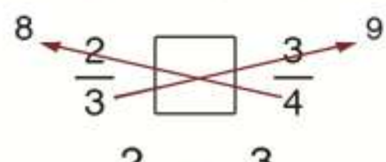
$\frac{12}{18}$ =..............................

PONY

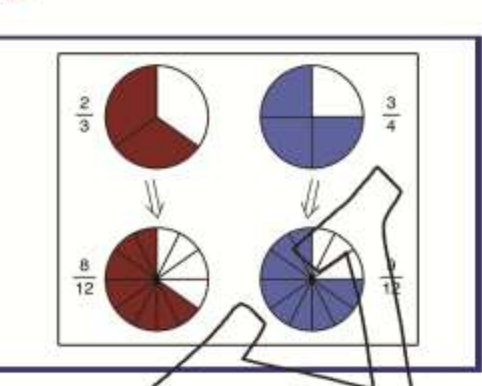


Comparing and ordering fractions





$$\frac{2}{3} < \frac{3}{4}$$



Put the suitable sign <, = or >

$\frac{1}{4}$ ☐ $\frac{3}{4}$ $\frac{3}{6}$ ☐ $\frac{3}{4}$

$\frac{5}{7}$ ☐ 1 $\frac{3}{7}$ ☐ $\frac{5}{7}$

$\frac{2}{4}$ ☐ $\frac{3}{6}$ $\frac{4}{6}$ ☐ $\frac{8}{12}$

Arrange in an ascending order and in a descending order

$\frac{7}{11}$, $\frac{5}{11}$, $\frac{8}{11}$, $\frac{2}{11}$, $\frac{1}{11}$

ascending order ……… , ……… , ……… , ……… , ………

descending order ……… , ……… , ……… , ……… , ………

$\frac{2}{9}$, $\frac{2}{13}$, $\frac{2}{11}$, 1 , $\frac{2}{5}$

ascending order ……… , ……… , ……… , ……… , ………

descending order ……… , ……… , ……… , ……… , ………





Adding and Subtracting Fractions

Add:

$\frac{3}{7} + \frac{2}{7} = \frac{\dots}{\dots}$

$\frac{2}{9} + \frac{4}{9} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$

$\frac{1}{5} + \frac{2}{5} = \frac{\dots}{\dots}$

$\frac{4}{11} + \frac{2}{11} = \frac{\dots}{\dots}$

$\frac{5}{9} + \frac{2}{9} + \frac{1}{9} = \frac{\dots}{\dots}$

$\frac{2}{7} + \frac{3}{7} + \frac{1}{7} = \frac{\dots}{\dots}$

Subtract :

$\frac{4}{5} - \frac{2}{5} = \frac{\dots}{\dots}$

$\frac{8}{9} - \frac{5}{9} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$

$\frac{5}{9} - \frac{2}{9} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$

$\frac{7}{8} - \frac{3}{8} = \frac{\dots}{\dots} = \frac{\dots}{\dots}$

$1 - \frac{2}{5} = \frac{\dots}{\dots}$

$1 - \frac{5}{9} = \frac{\dots}{\dots}$

Complete :

$\frac{3}{7} + \frac{\dots}{\dots} = \frac{5}{7}$

$\frac{\dots}{\dots} + \frac{4}{9} = \frac{8}{9}$

$\frac{\dots}{\dots} - \frac{2}{\dots} = \frac{3}{7}$

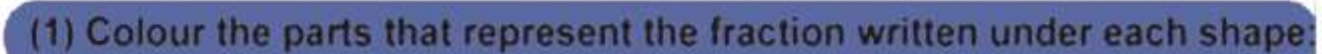
$\frac{7}{11} - \frac{\dots}{\dots} = \frac{2}{11}$

$\frac{\dots}{\dots} - \frac{2}{5} = \frac{3}{5}$

$1 - \frac{\dots}{\dots} = \frac{5}{9}$

PONY

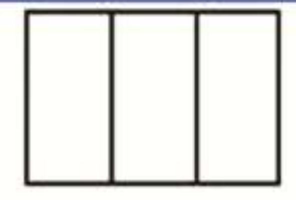
Exercises on unit 3



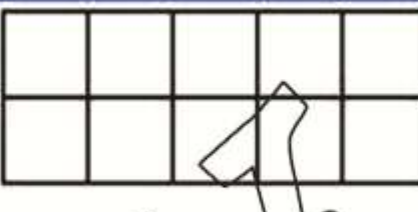
(1) Colour the parts that represent the fraction written under each shape:



$\frac{5}{8}$

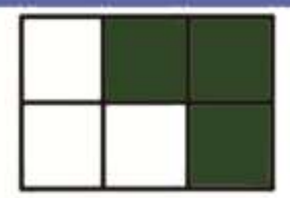


$\frac{2}{3}$

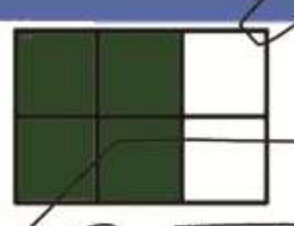


$\frac{2}{5}$

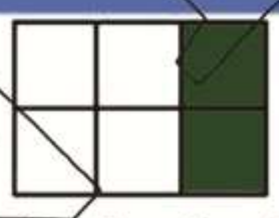
(2) Circle the fraction that represents the coloured part in each of the following shapes:



$\frac{1}{3}$, $\frac{1}{6}$, $\frac{1}{4}$, $\frac{1}{2}$



$\frac{3}{6}$, $\frac{2}{3}$, $\frac{1}{4}$, $\frac{3}{4}$



$\frac{1}{3}$, $\frac{2}{3}$, $\frac{2}{4}$, $\frac{3}{4}$

(3) Complete:

$\frac{1}{5} + \frac{2}{5} = \frac{\dots}{\dots}$, $\frac{2}{7} = \frac{6}{\dots}$, $\frac{8}{9} - \frac{5}{9} = \dots$

$\frac{6}{10} = \frac{3}{\dots}$, $1 - \frac{5}{8} = \dots$, $\frac{6}{16} = \frac{\dots}{2}$

(4) Circle what each of the following fractions equals:

(a) $\frac{3}{5}$ $\quad$ ($\frac{1}{5} + \frac{3}{5}$, $\frac{6}{20}$, $1 - \frac{2}{5}$)

(b) $\frac{2}{3}$ $\quad$ ($\frac{6}{9}$, $\frac{9}{11}$, $\frac{9}{15}$)

(c) $\frac{6}{7}$ $\quad$ ($\frac{3}{7} + \frac{3}{7}$, $\frac{9}{14}$, $\frac{12}{15}$)



(5) Complete using one of the signs < , = or >:

$\frac{5}{8}$ ☐ $\frac{7}{8}$ $\frac{2}{3}$ ☐ 1

$\frac{11}{13}$ ☐ $\frac{7}{13}$ 1 ☐ $\frac{7}{7}$

(6) Order the following fractions ascendingly and descendingly:

$\frac{1}{10}$, $\frac{3}{10}$, $\frac{2}{10}$, $\frac{9}{10}$

Ascending order: .... , ... , ... , ...

Descending order: .... , ... , ... , ...

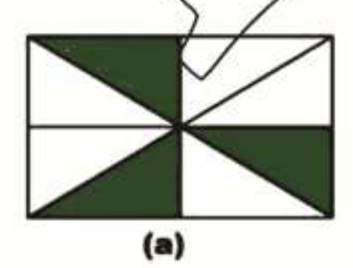
(7) Choose the correct answer

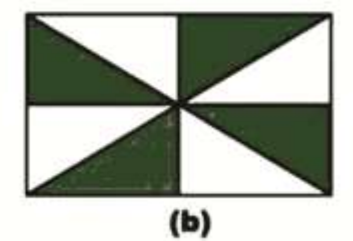
(a) $\frac{15}{25} = \frac{\dots}{5}$ (3, 5, 7)

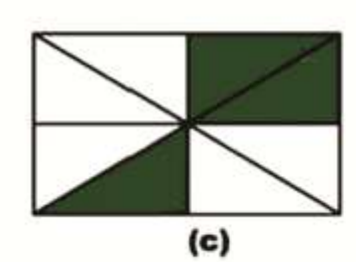
(b) Which the following fraction whose represent the whole one ....   ($\frac{4}{4}$, $\frac{4}{3}$, $\frac{1}{4}$)

(c) $\frac{5}{9}$ ☐ $\frac{6}{9}$ (> , < , =)

(8) Which of the following shapes represent half?


(a)


(b)


(c)

PONY

Unit 4

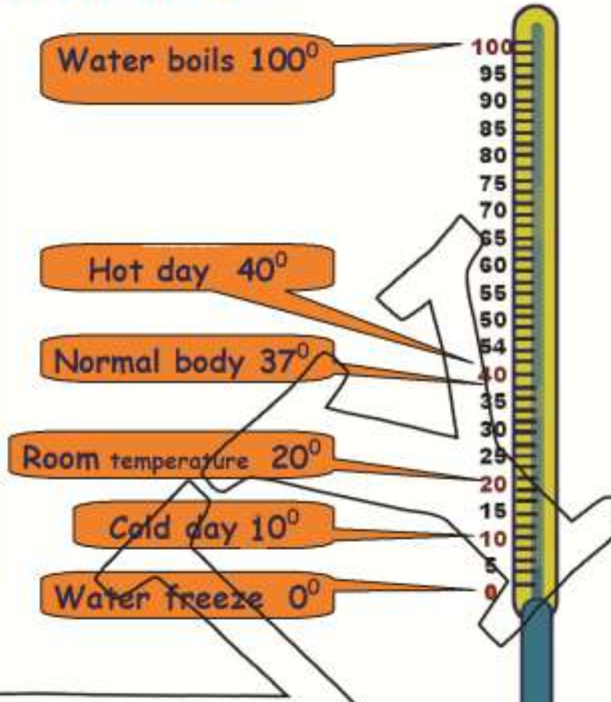
Measurement

LESSON 1 Measuring Temperature

Thermometer is used for measuring temperature.

Degree [°]: is the unit of measuring temperature.

The thermometer is marked with the **Celsius** scale (c).



Complete

1) the water is boils at .... °
2) the water freeze at .... °.
3) the normal body temperature is ....°.
4) the temperature of a hot day is ....°.
5) the temperature of a cold day is ....°.
6) .... is used to measure the temperature.
7) The unit of measuring the temperature is ....

The temperatures recorded in one of the week were as follows:

Day	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Temp.	22°	23°	21°	18°	19°	20°	21°

Answer the following questions :

a) On what day the temperature the highest? ....

b) On what day the temperature the lowest ? ....

c) Which two days have equal temperature? .... and ....



Measuring the length

Kilometre (km) metre (m) centimeter (cm)

1 kilometre = 1000 metre
$\frac{1}{2}$ kilometre = 500 metre
$\frac{1}{4}$ kilometre = 250 metre
$\frac{3}{4}$ kilometre = 750 metre

1 metre = 100 cm
$\frac{1}{2}$ metre = 50 cm
$\frac{1}{4}$ metre = 25 cm
$\frac{3}{4}$ metre = 75 cm

Complete :

3 metres = ... cm
18 metres = ... cm
800 cm = ... m
50 000cm = ... m
50 cm = ... m

3 m and 55 cm = ... cm
8 m and a quarter = ... cm
$\frac{1}{4}$ m and 30 cm = ... cm

726 cm = ... m and ...... cm
8020 cm = ... m and ...... cm

6 kilometres = ... m
60 kilometres = ... m
9000 m = ... km
21 000 m = ... km
750 m = ... km

8 km and 620 m = ...m
21 km and 60 m = ...m
$\frac{3}{4}$ km and 350 m = ...m

8450 m = ... km and ...... m
60200 m = ... km and ...... m

Choose the correct answer :

a) The length of a pen can be .... (10 cm , 10 km , 10 m)

b) The height of a house can be .... (48 m , 8 km , 200cm)

c) The distance between Cairo and Alexandria can be ....
(78 m , 200 km , 600 cm)

d) 5 km and 20 m = ... cm (5020 , 5200 , 5002)

The distance between Yassir's school and his house is 2 km, 750m
His club is 2250 m away from his house . What is the difference between the two distance ?

The difference = ...



Measuring weight

1 kilogram (kg) = 1000 gram (gm)

$\frac{1}{2}$ kilogram (kg) = 500 gram (gm)

$\frac{1}{4}$ kilogram (kg) = 250 gram (gm)

$\frac{3}{4}$ kilogram (kg) = 750 gram (gm)

Complete :

3 kg = ... gm

7 kg = ... gm

6 000 gm = ... kg

24 000 gm = ... kg

$\frac{1}{2}$ kg = ... gm

$\frac{3}{4}$ kg = ... gm

250 gm = ... kg

3 kg and 450 gm = ... gm

12 kg and 350 gm = ... gm

6 850 gm = ... kg .... gm

6 020 gm = ... kg .... gm

3 $\frac{1}{2}$ kg = ... gm

7 $\frac{3}{4}$ kg = ... gm

6 500 gm = ... kg

5 kg = ... gm

12 kg = ... gm

4 000 gm = ... kg

12 000 gm = ... kg

$\frac{1}{4}$ kg = ... gm

500 gm = ... kg

750 gm = ... kg

3 kg and 200 gm = ... gm

10 kg and 50 gm = ... gm

19 550 gm = ... kg .... gm

12 320 gm = ... kg .... gm

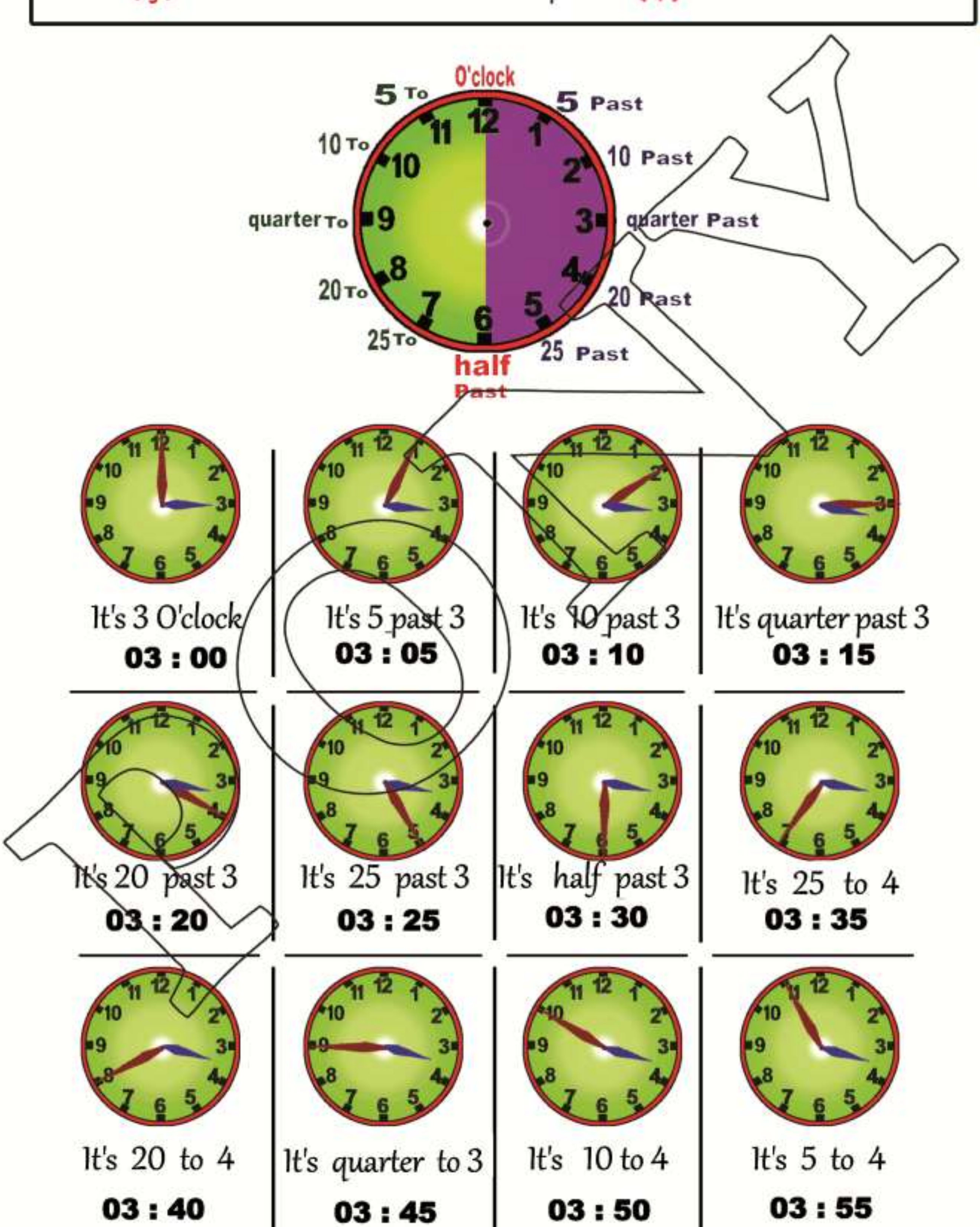
5 $\frac{1}{4}$ kg = ... gm

12 $\frac{1}{2}$ kg = ... gm

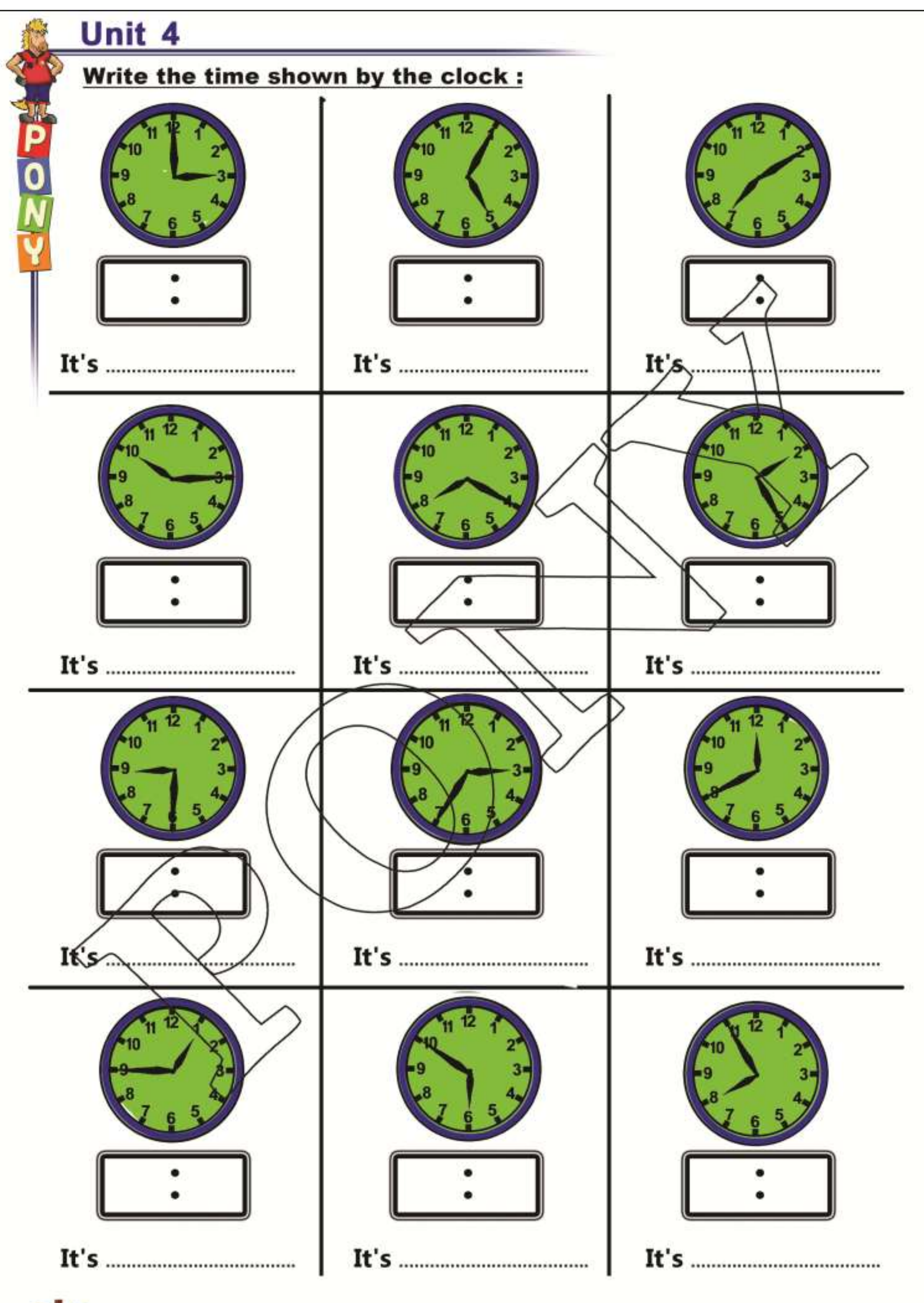
12 250 gm = ... kg

Measuring Time

An hour = 60 minuts	Two thirds ($\frac{2}{3}$) an hour = 40 minutes
Half ($\frac{1}{2}$) an hour = 30 minutes	Quarter ($\frac{1}{4}$) an hour = 15 minutes
Third ($\frac{1}{3}$) an hour = 20 minutes	Three quarters ($\frac{3}{4}$) an hour = 45 minutes



Write the time shown by the clock :



It's ....

It's ....

It's ....

It's ....

It's ....

It's ....

It's ....

It's ....

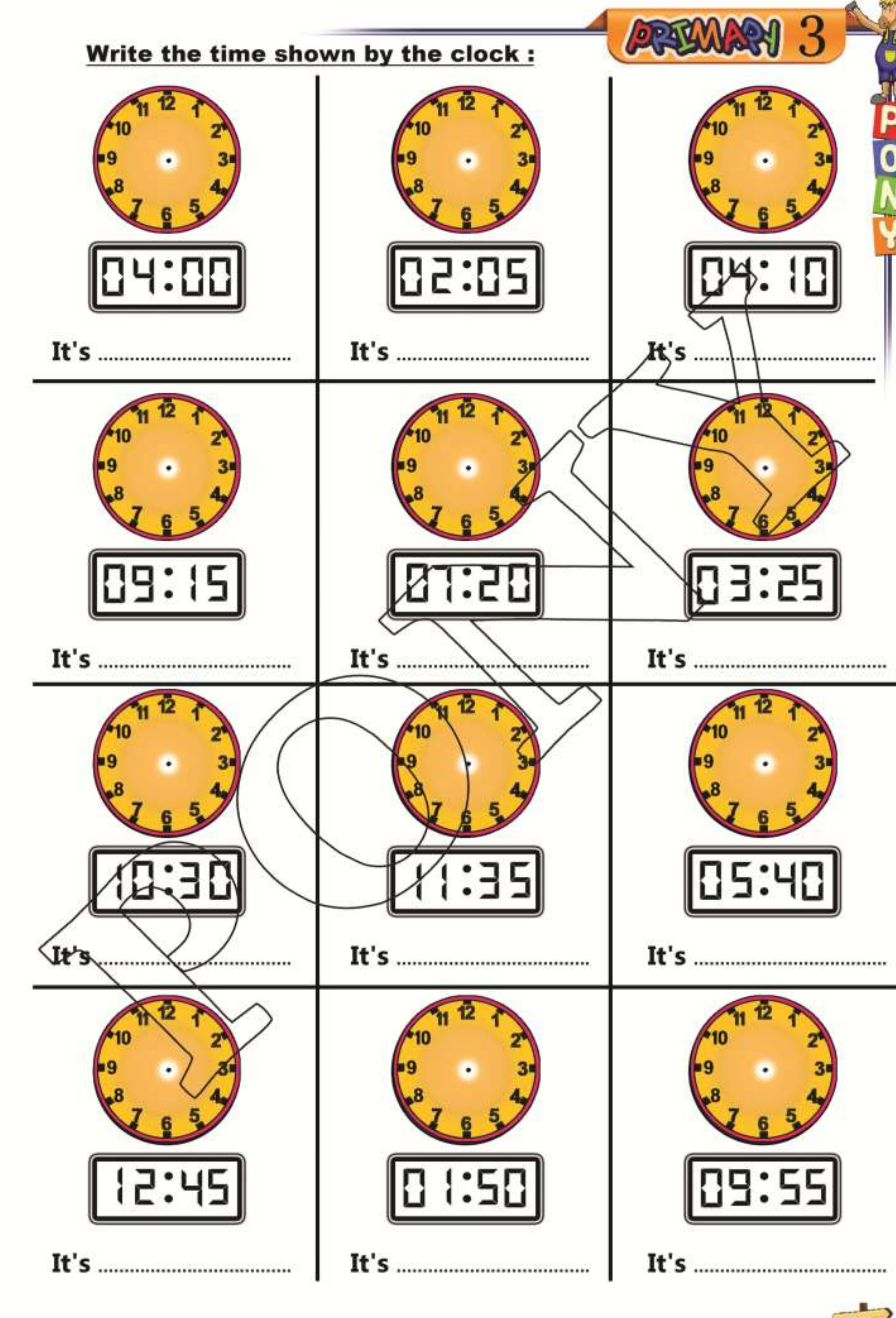
It's ....

It's ....

It's ....

It's ....

Write the time shown by the clock :



It's ....

It's ....

It's ....

It's ....

It's ....

It's ....

It's ....

It's ....

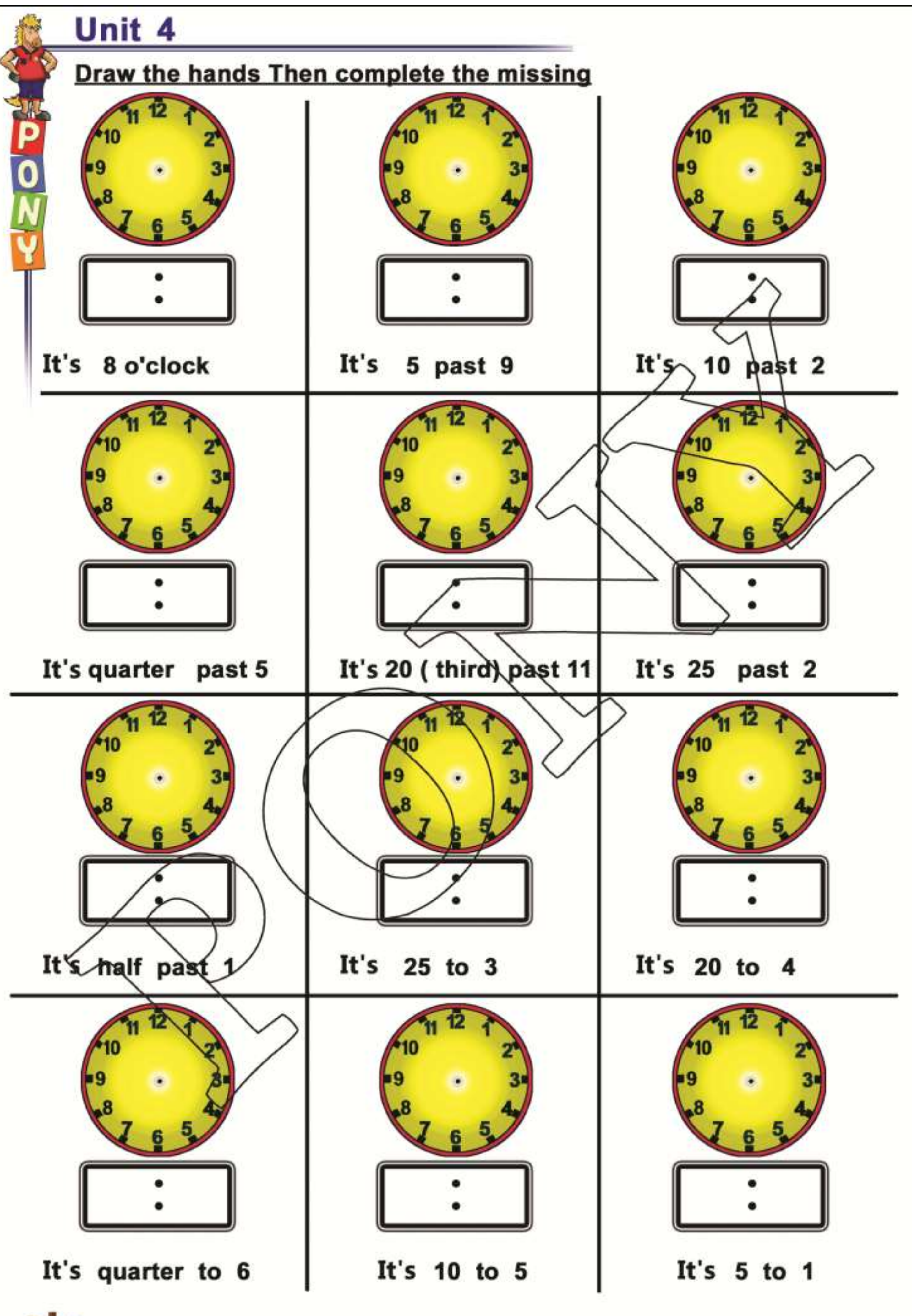
It's ....

It's ....

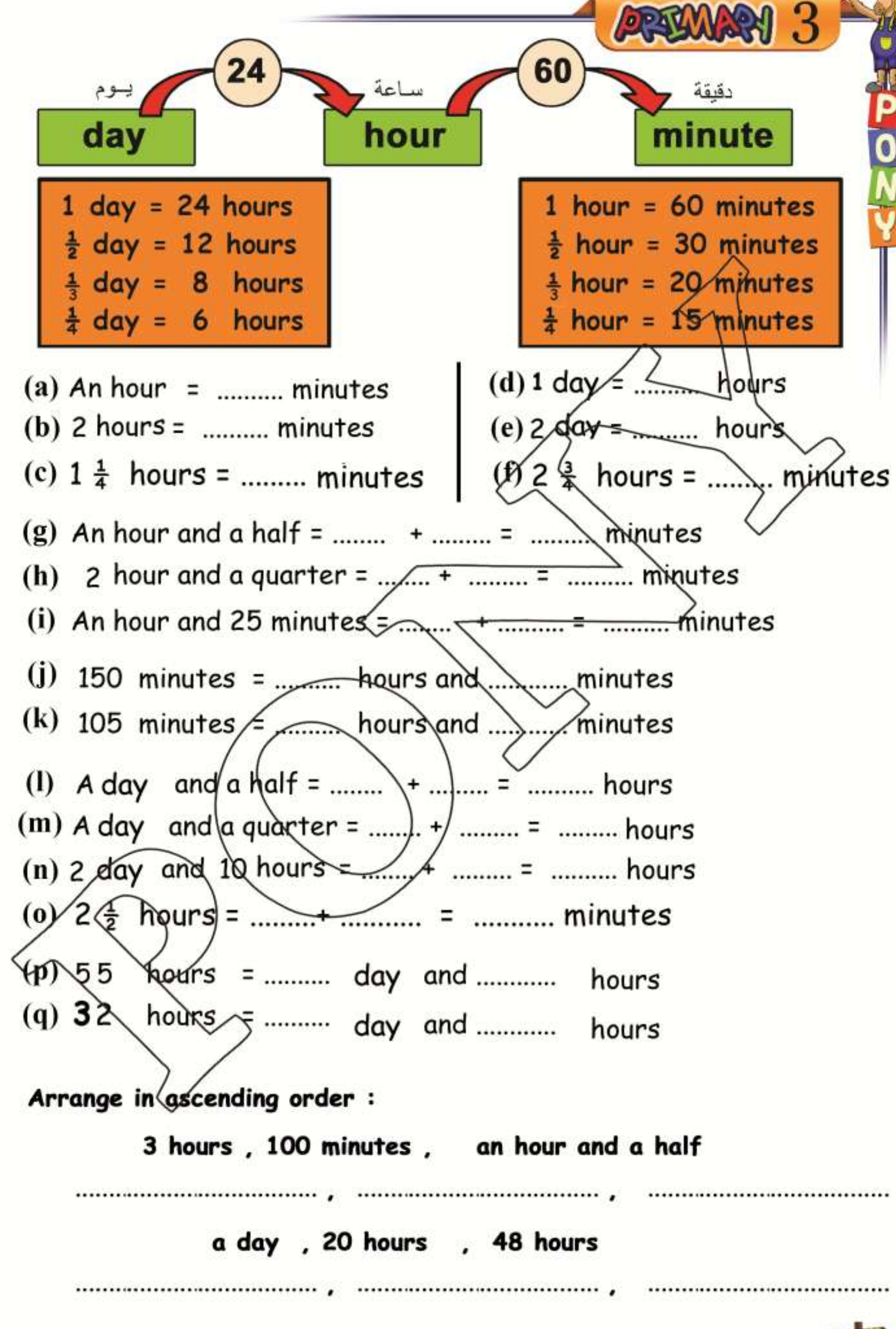
It's ....

It's ....

Unit 4



Draw the hands Then complete the missing
It's 8 o'clock
It's 5 past 9
It's 10 past 2
It's quarter past 5
It's 20 (third) past 11
It's 25 past 2
It's half past 1
It's 25 to 3
It's 20 to 4
It's quarter to 6
It's 10 to 5
It's 5 to 1



1 day = 24 hours
$\frac{1}{2}$ day = 12 hours
$\frac{1}{3}$ day = 8 hours
$\frac{1}{4}$ day = 6 hours

1 hour = 60 minutes
$\frac{1}{2}$ hour = 30 minutes
$\frac{1}{3}$ hour = 20 minutes
$\frac{1}{4}$ hour = 15 minutes

(a) An hour = ... minutes

(b) 2 hours = ... minutes

(c) 1 $\frac{1}{4}$ hours = ... minutes

(d) 1 day = ... hours

(e) 2 day = ... hours

(f) 2 $\frac{3}{4}$ hours = ... minutes

(g) An hour and a half = ... + ... = ... minutes

(h) 2 hour and a quarter = ... + ... = ... minutes

(i) An hour and 25 minutes = ... + ... = ... minutes

(j) 150 minutes = ... hours and .... minutes

(k) 105 minutes = ... hours and .... minutes

(l) A day and a half = ... + ... = ... hours

(m) A day and a quarter = ... + ... = ... hours

(n) 2 day and 10 hours = ... + ... = ... hours

(o) 2 $\frac{1}{2}$ hours = ... + ... = ... minutes

(p) 55 hours = ... day and .... hours

(q) 32 hours = ... day and .... hours

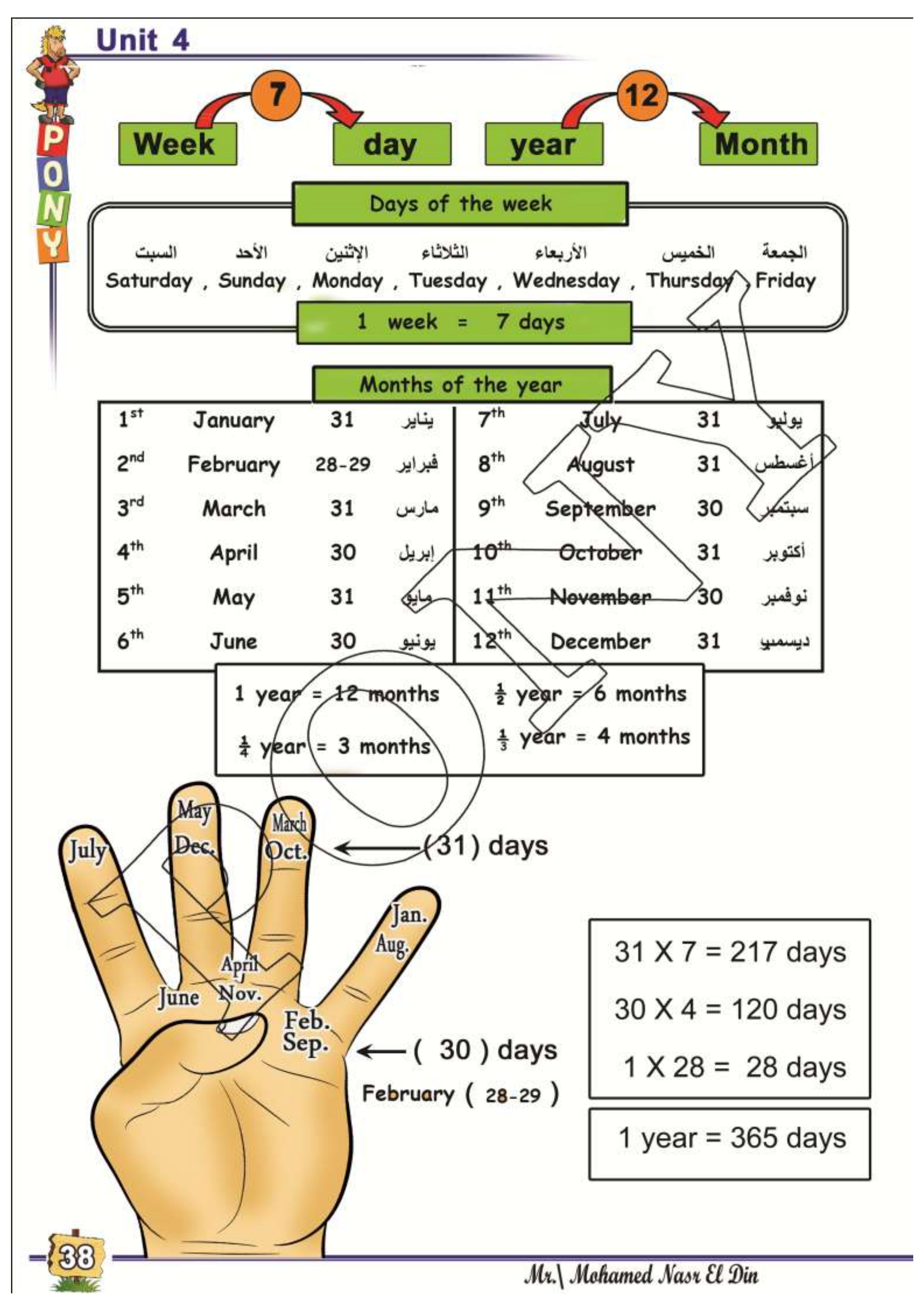
Arrange in ascending order :

3 hours , 100 minutes , an hour and a half

.... , ... , ...

a day , 20 hours , 48 hours

.... , ... , ...



Week → 7 → day   year → 12 → Month

Days of the week

السبت	الأحد	الإثنين	الثلاثاء	الأربعاء	الخميس	الجمعة
Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday

1 week = 7 days

Months of the year

1st	January	31	يناير	7th	July	31	يوليو
2nd	February	28-29	فبراير	8th	August	31	أغسطس
3rd	March	31	مارس	9th	September	30	سبتمبر
4th	April	30	إبريل	10th	October	31	أكتوبر
5th	May	31	مايو	11th	November	30	نوفمبر
6th	June	30	يونيو	12th	December	31	ديسمبر

1 year = 12 months $\frac{1}{2}$ year = 6 months

$\frac{1}{4}$ year = 3 months $\frac{1}{3}$ year = 4 months

(31) days

(30) days

February (28-29)

31 X 7 = 217 days

30 X 4 = 120 days

1 X 28 = 28 days

1 year = 365 days

Complete :

- The 1st day of the **week** is ....
- The last day of the **week** is ....
- The fifth day of the **week** is ....

- The day after :

Sunday is ....

Saturday is ....

Wednesday is ....

-The day before:

Friday is ....

Thursday is ....

Wednesday is ....

Complete :

- The 1st month of the year is ....
- The last month of the year is ....
- The fifth month of the year is ....

The month after :

- January is ....
- February is ....
- November is ....

The month before :

- February is ....
- June is ....
- August is ....

Complete :

(a) week = ... days

(b) 3 weeks =........... days

(c) 14 days = ... weeks

(d) 35 days = ... weeks

(e) 1 year = ... months

(f) 2 years = ... months

(g) 12 months = ... years

(h) 24 months = ... years

(i) 2 weeks and 6 days = ... + ... = ... days

(j) 3 weeks and 6 days = ... + ... = ... days

(k) 9 days = ... week and .... days

(l) 25 days = ... week and .... days

(m) 2 years and a half = ... + ... = ... months

PONY



(n) 1 year and a quarter = ... + ... = ... months

(o) 2 years and 4 months =......... + ... = ... months

(p) 3 $\frac{1}{2}$ years = ... + ... = ... months

(q) 1 $\frac{1}{4}$ years = ... months

(r) 18 months = ... year and .... months

(s) 15 months = ... year and .... months

Write the answer :

(1) The monthes that have 30 days are ....

....

(2) The monthes that have 30 days are ....

....

(3) February from this year has .... days

(4) The number of days from this yeare

= (30 X ....) + (31 X ....) + ...

= ....+ ....+ .... = ... days

	January					February					March					April				
Saturday		7	14	21	28		4	11	18	25		4	11	18	25	1	8	15	22	29
Sunday	1	8	15	22	29		5	12	19	26		5	12	19	26	2	9	16	23	30
Monday	2	9	16	23	30		6	13	20	27		6	13	20	27	3	10	17	24	
Tuesday	3	10	17	24	31		7	14	21	28		7	14	21	28	4	11	18	25	
Wednesday	4	11	18	25		1	8	15	22		1	8	15	22	29	5	12	19	26	
Thursday	5	12	19	26		2	9	16	23		2	9	16	23	30	6	13	20	27	
Friday	6	13	20	27		3	10	17	24		3	10	17	24	31	7	14	21	28	

	May					June					July					August				
Saturday		6	13	20	27		3	10	17	24	1	8	15	22	29		5	12	19	26
Sunday		7	14	21	28		4	11	18	25	2	9	16	23	30		6	13	20	27
Monday	1	8	15	22	29		5	12	19	26	3	10	17	24	31		7	14	21	28
Tuesday	2	9	16	23	30		6	13	20	27	4	11	18	25		1	8	15	22	29
Wednesday	3	10	17	24	31		7	14	21	28	5	12	19	26		2	9	16	23	30
Thursday	4	11	18	25		1	8	15	22	29	6	13	20	27		3	10	17	24	31
Friday	5	12	19	26		2	9	16	23	30	7	14	21	28		4	11	18	25	

	September					October					November					December				
Saturday	30	2	9	16	23		7	14	21	28		4	11	18	25	30	2	9	16	23
Sunday		3	10	17	24	1	8	15	22	29		5	12	19	26	31	3	10	17	24
Monday		4	11	18	25	2	9	16	23	30		6	13	20	27		4	11	18	25
Tuesday		5	12	19	26	3	10	17	24	31		7	14	21	28		5	12	19	26
Wednesday		6	13	20	27	4	11	18	25		1	8	15	22	29		6	13	20	27
Thursday		7	14	21	28	5	12	19	26		2	9	16	23	30		7	14	21	28
Friday	1	8	15	22	29	6	13	20	27		3	10	17	24		1	8	15	22	29

	March				
Saturday		4	11	18	25
Sunday		5	12	19	26
Monday		6	13	20	27
Tuesday		7	14	21	28
Wednesday	1	8	15	22	29
Thursday	2	9	16	23	30
Friday	3	10	17	24	31

Write the answer :

(1) The day of 13/3 from this year is ....

(2) The date of the first sunday in **March** from this year is

....

Exercises on Unit 4

(1) Complete

4 metres = ... centimeters

3 weeks = ... days

3 kilograms = ... grams

2 years = ... months

1 year and two months = ... months

2 hours and a quarter = ... minutes

1 hours and 50 minutes = ... minutes

---

(2) (a) What is the unit used to measure temperature? ....

(b) What is the normal human temperature? ....

(c) How many minutes are there in half of an hour? ....

---

(3) Arrange ascendingly:

(a) 2400 grams , 250 grams , 1 kilograms

.... , ... , ...

(b) 50 days, 200 hours, 10 days

.... , ... , ...

(c) 3 kilometres . 4000 centimeters , 500 metres , 2000 metres

.... , ... , ... , ...

---

(4) : (a) What is the suitable unit for measuring the distance between two countries ....

(b) What is the suitable unit for calculating the time of a school period?

....

(c) What is the suitable unit for measuring the weight of gold work?

....

PONY





(5) Telling the Time in each of the following :





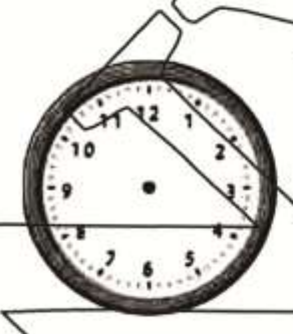

....	....	....	....
....	....	....	....

(6) Draw the hands of the watch



It`s 5 min to six


It`s 10 min past 4


It`s half past 11


It`s 25 min to 2

Activities (unit 4)

(1) What kind of clothes would you advise your classmates to wear on the days with the following temperatures .... :

higher	lower	
37 °	30 °	....
15 °	10 °	....
22 °	17 °	....

(2) (a) What is the birthday of someone who celebrates it only once every 4 years? ....

(b) Which is heavier: 10 kilograms of iron or 10 kilograms of cotton?

....



(3) How long is the period of time that starts on the beginning of Monday, 15 October, 2009 and ends with the end of saturday, 27 October 2009?

....

....

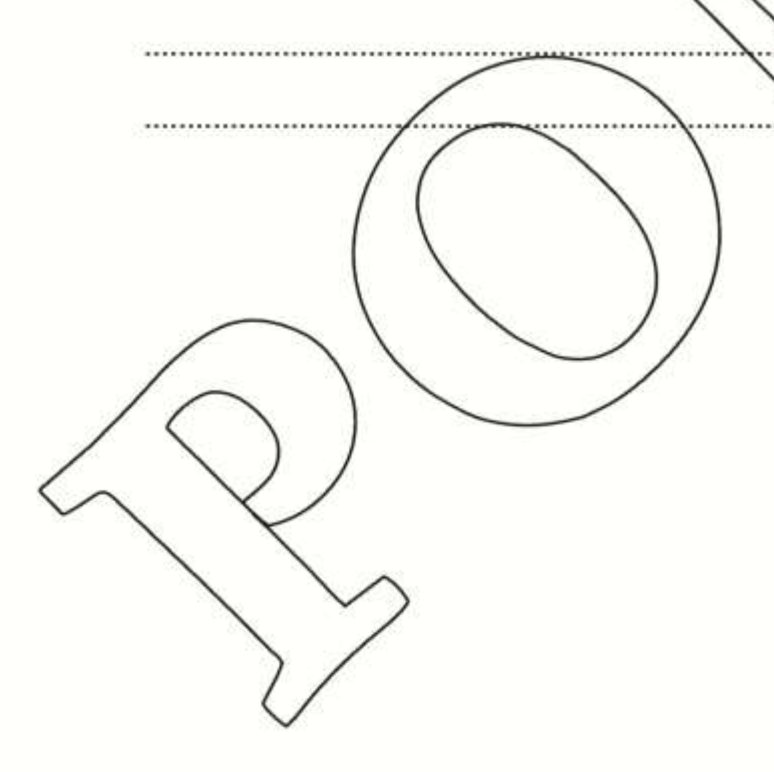
(4) A person started a job on the first of March and finshed it at the end of August of the same year. How many months did he spend doing this job?

....

(5) Medhat walks a distance of 2 kilometres in 20 minutes. How much time does it take him to walk a distance of six kilometres if he walks consistently (with the same speed)? What is the distance he covers in an hour and a half?

....

....





Unit 5

Statistics and Probability



Collecting and Representing Data

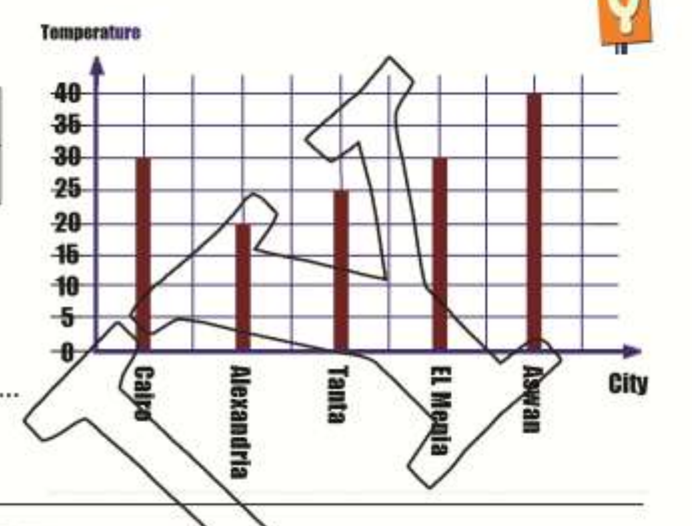
Use the opposite bar-lines to complete the table :

City	Cairo	Alex.	Tanta	El Menia	Aswan
Temperature	....	....	....	....	....

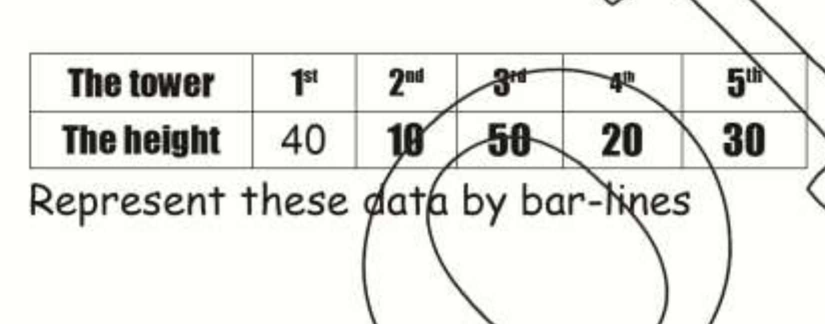
The highest temperature was in ....

The lowest temperature was in ....

The difference between the highest and the lowest temperature was ....

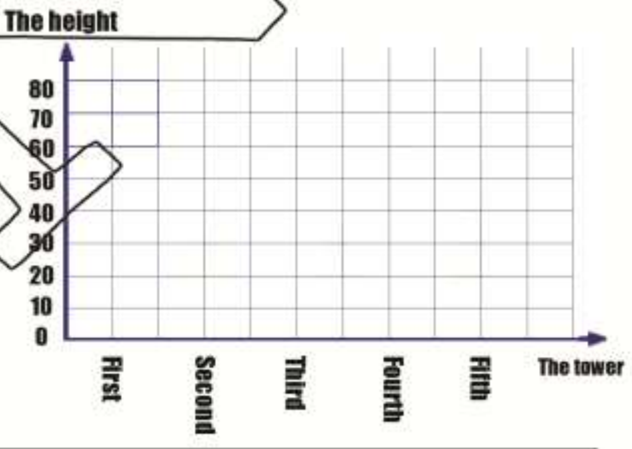


The following table shows the heights of four towers:



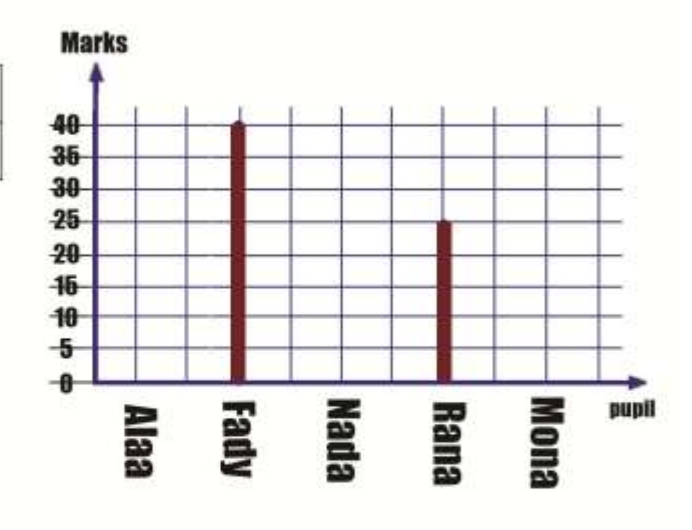
The tower	1st	2nd	3rd	4th	5th
The height	40	10	50	20	30

Represent these data by bar-lines



Complete the following table and the opposite graph :

pupil	Alaa	Fady	Nada	Rana	Mona
Marks	30		20		35



PONY



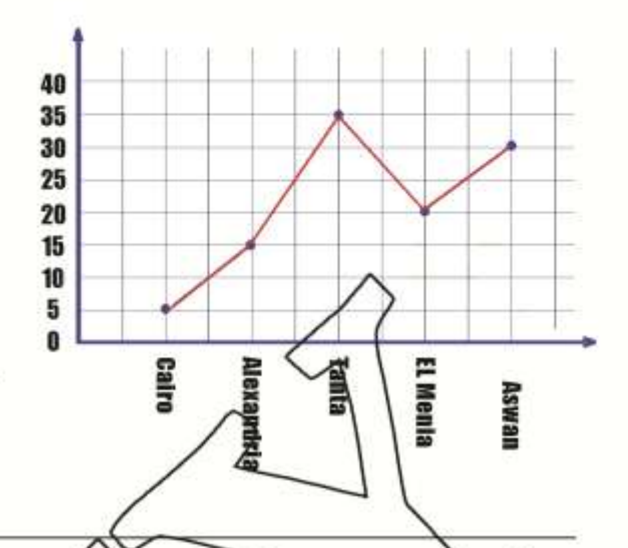
Use the opposite broken-lines to complete the table :

City	Cairo	Alex.	Tanta	El Menia	Aswan
Temperature	....	....	....	....	....

The highest temperature was in ....

The lowest temperature was in ....

The difference between the highest and the lowest temperature was ....



The following table shows the heights of four towers:

The tower	1st	2nd	3rd	4th	5th
The height	40	10	50	20	30

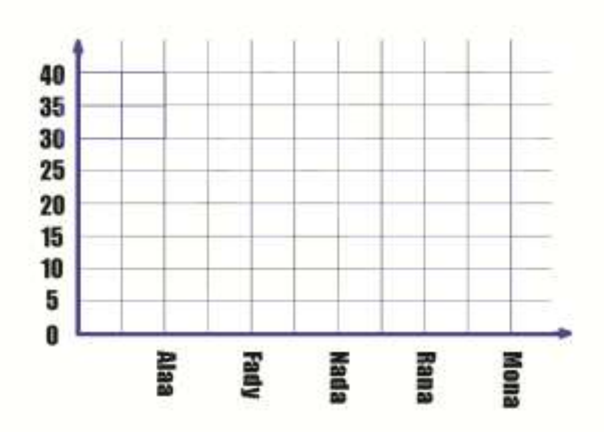
Represent these data by broken-lines

80
70
60
50
40
30
20
10
0
First
Second
Third
Fourth
Fifth

Complete the following table and the opposite graph :

pupil	Alaa	Fady	Nada	Rana	Mona
Marks	30	5	20	15	35

Represent these data by broken-lines



PONY

Probability

Certain (sure) - **Possible** - **Impossible**

أكيد - ممكن - مستحيل

Complete by write " Certain " - " Possible " – " Impossible " :

1) It is .... to rain gold
2) It is .... that the sun will rise in the morning
3) It is .... that I will get a high grade in mathematics.
4) It is .... to find a man three metres high

---

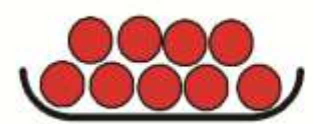
In the opposite figure there are nine black balls in a container
Complete by write " Certain " , " Possible " , " Impossible " :

1) It is .... to draw a black ball.
2) It is .... to draw a white ball.



In the opposite figure there are nine white balls in a container
Complete:

1) It is certain to draw a .... ball.
2) It is impossible to draw a .... ball.



In the opposite figure there are nine balls in a container
Complete by write " Certain " , " Possible " , " Impossible " :

1) It is .... to draw a black ball.
2) It is .... to draw a white ball.
3) It is .... to draw a green ball.
4) It is .... to draw a ball.



Calculating Probability

Certain	Possible	Impossible
1	Fraction	0

The probability of a certain event is 1
The probability of an inpossible event is zero

If a container holds 5 black balls and 4 white balls , one ball is drawn blindly

1) The probability of the drawn ball being black = ...
2) The probability of the drawn ball being white = ...
3) The probability of the drawn ball being red = ...
3) The probability of the drawn ball being green = ...

If you throw a dice (die) once , what is the probability of seeing :

1) the number one on the upper face = ...
2) the number 8 on the upper face = ...
3) an odd number on the upper face = ...
4) an even number on the upper face = ...
5) a number greater than six on the upper face = ...

If we flip a coin, we get either heads or tails . complete :

1) the probability of getting **heads** = ...
2) the probability of getting **tails** = ...



tails


heads

In a class of 40 pupils , 23 are boys and 17 are girls . one day , one of the pupils was absent .

What is the probability of the absent pupil being a boy ?........

What is the probability of the absent pupil being a girl ?........

